

SOLID POLYELECTROLYTE

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[57] Abstract:

PURPOSE: To produce a solid polyelectrolyte having high ion conductivity at a room temperature so as to stabilize electrochemical elements for a primary battery a secondary battery, a capacitor and the like. CONSTITUTION: A solid polyelectrolyte is composed of mixture of a high polymer, whose principal chain, having a side chain of a polyalkylene oxide structure, is a vinyl polymer, alkali metallic salt, and high boiling point liquid. Stable construction is caused by using polyethylene oxide dimethylether, and the like, which alkali metal is dissolved in, and hardly vaporizes at an operation temperature. It is also possible to obtain the solid polyelectrolyte, having high dissociation ability of the alkali metallic salt. and high ion conductivity.COPYRIGHT: (C)1993,JPO&Japio

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